| Work Order Wednesday, July 14 | | | | | | | | Paged |
|---|---|------------|---------------------------------|----------------------------|--------------------|-------|-----------------|------------------------------|
| Item ID: D2 Revision ID: | 12-664-201 | Acco | ept | | | Se Se | tup Start | |
| Item Name: Cro | osstube Aft | | | | The state of | | Stop | |
| Start Date: 7/1 Required Date: 7/2 Reference: | 4/2010 Start Qty: 1.00 22/2010 Req'd Qty: 1.00 | | | Cust Item ID: Customer: | 49 | | F | |
| Approvals: Pi | rocess Plan: | _ | ooling: PC (Y/N): | Date: | | Ru | n Start Stop | |
| Sequence ID/ Work Center ID | Operation Description | | Set Up/ Run Hours | Tool ID To | ool # Plan Code | | | Reject Insp. Number Stamp |
| Draw Nbr | Revision Nbr | | | : | | | + | |
| D212-664-241 | Rev D | | | į. | | | | |
| DC Document Control | DOCUMENT CONTROI Memo Photocopy bl | | 0.00 0.00 PP D212-664-201 | CHG003 (10/07 | 429 | * | for | BG 10/07/29 |
| 110 Packaging | Pick Kit Packaging Memo | | 0.00 |] * | | | X | MB 10-07-20 |
| Packaging | | 4 | | ; | | • : | | i |
| 120 CNC Bend 2 | BENDING MACHINE - | CROSSTUBES | 0.00 | | (| IX | 8 | MB (0-07-21 |

CNC Alpha 160 Bender

0.00

Bend tube as per Dwg D212-664-241 using CNC bender program 212-aft

| Dart | Aeros | pace | Ltd |
|------|--------------|------|-----|
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| W/O: | | | | WC | ORK ORDER CHA | ANGES | | | | | * |
|---------|------|--------------------------------|-------|----------------------|--|-------------------|--------|---------|---|-------------------------------|--------------------------|
| DATE | STEP | PI | ROCED | URE CHA | NGE | | Ву | Date | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector |
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| Part No |): | PAR #: | F | ault Cate | gory: | NC | R: Yes | No D | QA: | Date: | |
| | Re | esolution: | | Dispositio | n: | QA | N/C CI | osed: _ | · · · - · · · · · · · · · · · · · · · · | Date: _ | |
| NCR: | | | WOR | K ORD | ER NON-CONFO | RMANCE | (NCR | (1) | | | |
| DATE | STEP | Description of NC Section A | | Initial Chief Eng | Corrective Action Action Descrip Chief Eng | Section B tion | Sign & | | fication ction C | Approval Chief Eng | Approval QC Inspector |
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Wednesday, July 14, 2010 8:24:41 AM

Item ID:

D212-664-201

Accept

Setup Start

Stop

Revision ID:

Item Name:

Crosstube Aft

Start Date: 7/14/2010 Required Date: 7/22/2010

Start Qty: 1.00

Req'd Qty: 1.00

Date:_____

Cust Item ID:

Customer:

Reference:

Approvals:

QC:

Process Plan:

Date: **Tooling:**

SPC (Y/N):

Set Up/

Run Hours

Date:

Run

Stop



Sequence ID/ **Work Center ID**

130

Quality Control

Operation Description

QC15- Crosstube Dimensional Check

0.00

0.00

0.00

0.00

Tool ID

Date:

Tool # Plan Accept Code Qty

Reject **Qty**

Reject Number Stamp

Insp.

140



Crosstubes

Crosstubes

Memo

Memo

1-Drill pilot holes in tube as per Dwg D212-664-241 using drill Jig DT8550. DT8551, drill table DT8577 and locate tower holes #8 as per QSI0010.

2-Ream hole to finish size in tube as per Dwg D212-664-241using drill Jig DT8550 & DT8551. Check dimensions between holes, both sides on both cuffs, to ensure alignment with saddle holes.

3-Scribe part # and batch # using vibrating stylus as per Dwg D212-664-

4-Deburr & Inspect for surface damage. Repair damage within limits as per Dwg D212-664-241

| W/O: | | | W | ORK ORDER CHANG | ES | | | • | , |
|---------|------|-------------------|-----------|--|-----------|---------|------------|-------------------------------|--------------------------|
| DATE | STEP | PRO | CEDURE CH | ANGE | Ву | Date | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector |
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| Part No | : | PAR #: | Fault Cat | legory: | _ NCR: Ye | es No | DQA: | Date: _ | |
| | R | esolution: | Dispositi | ion: | _ QA: N/C | Closed: | | Date: _ | |
| NCR: | - | V | VORK ORI | DER NON-CONFORMA | NCE (N | CR) | | | |
| DATE | STEP | Description of NC | Initial | Corrective Action Section Action Description | | n & Ve | rification | Approval | Approval |
| | | Section A | Chief Eng | Chief Eng | | ate | Section C | Chief Eng | QC Inspector |
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Work Order ID 60557

Wednesday, July 14, 2010 8:24:41 AM



Page 3

Item ID:

D212-664-201

Accept

Setup Start



Revision ID:

Item Name:

Crosstube Aft

Start Date: 7/14/2010 Required Date: 7/22/2010 Start Qty: 1.00

Req'd Qty: 1.00

Cust Item ID:

Customer:

Reference:

Approvals:

Process Plan:

Operation

Description

Date:

Tooling:

SPC (Y/N):

Set Up/

Run Hours

Date:

Tool ID

Date:

Tool # Plan

Code

Run

Accept

Qty

Start Stop

Stop



Number Stamp

Reject

Reject

Qty

Insp.

Sequence ID/

Work Center ID

150

HandFXtube

Memo

Crosstubes Chemical Conversion

0.00

0.00

Hand Finishing Crosstubes

Chemical Conversion Coat as within 24 hours of bending and drilling

Date: _____

160

QC

Quality Control

QC3- Inspect Part Finish

Memo

Memo

& relator

Quality Control

QC5- Inspect part completeness to step on W/O

0.00

0.00

Sidospa

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| W/O: | | | WC | ORK ORDER CHANG | ES | | | | |
| DATE | STEP | PRO | OCEDURE CHA | NGE | Ву | Date | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector |
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| Part No |): | PAR #: | Fault Cate | gory: | NCR: Yes | No De | φA: | Date: _ | |
| | R | esolution: | Dispositio | n: | _ QA: N/C C | losed: _ | | Date: _ | |
| NCR: | | | WORK ORD | ER NON-CONFORMA | NCE (NC | R) | | | |
| DATE | STEP | Description of NC | | Corrective Action Section | | | ication | Approval | Approval |
| DAIL | O I E I | Section A | Initial Chief Eng | Action Description Chief Eng | Sign Date | | ction C | Chief Eng | QC Inspector |
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Wednesday, July 14, 2010 8:24:41 AM

Item ID:

D212-664-201

Accept



Setup Start

Stop



Revision ID:

Item Name:

Crosstube Aft

Start Date: 7/14/2010

Start Qty: 1.00

Required Date: 7/22/2010

Req'd Qty: 1.00



Cust Item ID:

Customer:

Tool ID

Reference:

Approvals:

Process Plan:

Operation

Description

Outsource process - NDT per QSI038 4.1

Date:_____

Date:_____

Tooling:

SPC (Y/N):

Set Up/

Run Hours

Date:

Date:

Code

Accept

Qty

Tool # Plan

Run Start

Reject

Qty



Reject

Number

Stop

Insp.

Stamp

Sequence ID/ **Work Center ID**

180

Outsource2

Outsource process - NDT

Memo

0.00

0.00

Liquid Penetrant Inspection as per QSI 038 Issue P/O: 12307

LPI as per ASTM 1417 Level 2

Attach copy of NDT results to work order

190

Packaging

Packaging

Receive & Inspect for Damage & Mat'l Certs

0.00

Packaging

Memo

0.00

Ensure copy of NDT results attached to work order.

200

Quality Control

QC5- Inspect part completeness to step on W/O

0.00

Memo

0.00

Inspect for damage & ensure results are as per Dwg D212-664-241

| | - | | | | | | | | | _ |
|---------|-------|-------------------|----------------------|------------------------------|----------|----------------|--------|---------|-------------------------------|--------------------------|
| W/O: | | | WC | ORK ORDER CHANG | GES | | | | , | • |
| DATE | STEP | PRO | OCEDURE CHA | NGE | | Ву | Date | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector |
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| Part No | • | PAR #: | Fault Cate | gory: | NCI | R: Yes I | No DO | A: | _ Date: _ | |
| | R | esolution: | Disposition | n: | QA | : N/C Clo | sed: _ | | Date: _ | |
| NCR: | | | WORK ORD | ER NON-CONFORM | IANCE | (NCR) | | | | |
| DATE | STEP | Description of NC | | | ection B | Ciana 0 | | ication | Approval | Approval |
| DAIL | J. C. | Section A | Initial Chief Eng | Action Description Chief Eng | | Sign & Date | Sec | tion C | Chief Eng | QC Inspector |
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Work Order ID 60557

Wednesday, July 14, 2010 8:24:41 AM



Page 5

Item ID: D212-664-201 Accept Setup Start **Revision ID:** Stop Item Name: Crosstube Aft **Start Date:** 7/14/2010 Start Qty: 1.00 **Cust Item ID:** Required Date: 7/22/2010 Req'd Qty: 1.00 **Customer:** Reference: Run Start Approvals: Process Plan: Date: **Tooling:** Date: Stop Date:_____ QC: SPC (Y/N): Date: Sequence ID/ Operation Set Up/ Tool ID Tool # Plan Accept Reject Reject Insp. Work Center ID Description **Run Hours** Code Qty Qty Number Stamp 210 Spray Painting per QSI005 4.2 0.00 SprayPaint 107-27 SprayPaint 0.00 Memo **Spray Painting** 1-Prime inside and outside crosstube as per QSI 005 4.2 2-Paint outside crosstube with White Imron as per OSI 005 4.2 PRIME: Start Time: 8:00 Fininsh Time: 87:00 PAINT: Start Time: (U & Finish Time: 2:06 220 QC14- Inspect Spray Paint . 0.00 Memo

Quality Control

0.00

Then, Wrap in plastic bag to protect from scratches

| W/O: | | | WC | RK ORDER CHANG | ES | | | | • |
|---------|------|-------------------|----------------------|------------------------------|----------------|---------------|---------|-------------------------------|-----------------------|
| DATE | STEP | PRO | CEDURE CHA | | Ву | Date | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector |
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| Part No | • | PAR #: | Fault Cate | gory: | _ NCR: Yes N | lo D (| A: | _ Date: _ | |
| | | esolution: | | | | | | | |
| NCR: | | V | VORK ORDI | ER NON-CONFORMA | ANCE (NCR) | | | | |
| DATE | CTED | Description of NC | | Corrective Action Section | | Veri | ication | Approval | Approval |
| DATE | STEP | Section A | Initial Chief Eng | Action Description Chief Eng | Sign & Date | | tion C | Chief Eng | QC Inspector |
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| Work Orde Wednesday, July | | | | | | | | | Page 6 |
|---|------------------------------|--|-------------------------|---|----------------------------|---|---------------|---------------------|---------------------------|
| Item ID: Revision ID: Item Name: | D212-664-20 Crosstube Aft | | | Accept | | 111111111111111111111111111111111111111 | i s | Setup Start Stop | |
| Start Date: Required Date: Reference: | 7/14/2010 7/22/2010 | Start Qty: 1.00 Req'd Qty: 1.00 | | | Cust Item ID: Customer: | | ! | | |
| Approvals: | Process Pla | n: | Date: | Tooling: | Date: | | : F | Run Start | |
| | QC: | | Date: | SPC (Y/N): | Date: | | , | Stop | |
| Sequence ID/ Work Center II 230 |) | Operation Description Crosstubes | 19.10 | Set Up/ Run Hours 0.00 | Tool ID T | Fool # Plan Code | Accept Qty | Qty | Reject Insp. Number Stamp |
| Crosstubes | | Memo | | 0.00 | | | M | 1_10_ | 07 28 (|
| Crosstubes | | with 41058 2-Install sup A/R 639 | | per QSI 015 Adhere for 11 H 158 Date: OI (2011 | for 12 Hrs | n ·29 (j) | . ! | · | |
| 240 | | OC5- Inspect part comp | leteness to sten on W/O | 0.00 | | | : | i I | |

0.00 Sidotha

QC5- Inspect part completeness to step on W/O

Memo

QC

Quality Control

| DATE STEP PROCEDURE CHANGE By Date Oty Chief From A | |
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| DATE STEP PROCEDURE CHANGE By Date Qty Approval Chief Eng / Prod Mgr | |
| | pprova C Inspecto |
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| Part No: PAR #: Fault Category: NCR: Yes No DQA: Date: | |
| Resolution: Disposition: QA: N/C Closed: Date: | |
| NCR: WORK ORDER NON-CONFORMANCE (NCR) | |
| DATE STEP Description of NC Corrective Action Section B Verification Approval | Approva |
| | C Inspecto |
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Work Order ID 60557

Wednesday, July 14, 2010 8:24:41 AM



Page 7

Item ID:

D212-664-201

Accept

Setup Start

Stop

Revision ID:

Item Name: Crosstube Aft

Start Date: 7/14/2010 Start Qty: 1.00

Required Date: 7/22/2010

QC:

Req'd Qty: 1.00



Cust Item ID:

Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling: Date:

SPC (Y/N):

Date: Date:

Tool ID

Run Start

Stop



Sequence ID/ Work Center ID

250

Packaging

Operation Description

Pick Kit

Memo

Set Up/ **Run Hours**

0.00

0.00

Tool # Plan

Accept Qty Code

Reject **Qty**

Reject Number Stamp

Insp.

Packaging

260

Quality Control

QC4- 100% Inspect kits for completeness

0.00

270

Packaging

Packaging

Memo

Memo

0.00

0.00

Packaging

Identify and pack for shipping as per PPP D212-664-201

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| W/O: | | | W | ORK ORDER CHAN | GES | | | ļ | | |
|---------|------|--------------------------------|------------|--------------------|---------|---------|-----------------|-------------------|-------------------------------------|--------------------------|
| DATE | STEP | PR | OCEDURE CH | ANGE | | Ву | Date | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector |
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| Part No | | PAR #: | Fault Cat | egory: | NCR | : Yes N | 10 D (| A: | _ Date: _ | |
| - | Res | solution: | Dispositi | on: | QA: | N/C Clo | sed: _ | | Date: _ | |
| NCR: | | | WORK ORI | DER NON-CONFORM | IANCE | (NCR) | | | | |
| DATE | STEP | Description of NC Section A | Initial | Action Description | ction B | Sign & | | ication tion C | Approval Chief Eng | Approval QC Inspector |
| | | | Chief Eng | Chief Eng | | Date | | | | |
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Work Order ID 60557

Wednesday, July 14, 2010 8:24:41 AM



Page 8

Item ID:

D212-664-201

Accept

Setup Start

Stop



Revision ID:

Item Name:

Crosstube Aft

7/14/2010 **Start Date:**

Start Qty: 1.00

Required Date: 7/22/2010

Req'd Qty: 1.00



Cust Item ID:

Customer:

Reference:

Approvals:

QC:

Process Plan:

Operation

Description

QC21- Final Inspection - Work Order Release

Date:____ Date: **Tooling: SPC (Y/N):**

Date:

Date:

Run

Start



Sequence ID/

Work Center ID

280

Quality Control

Memo

0.00

Set Up/

Run Hours

Tool ID

Tool # Plan Code

Accept Qty

Reject Qty

Reject Number Stamp

Insp.

0.00

| Dart Aerospace Ltd |
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| W/O: | | | W | ORK ORDER CHA | ANGES | | | | | ٠ |
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| DATE | STEP | PR | OCEDURE CH | IANGE | | Ву | Date | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector |
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| Part No | • | PAR #: | Fault Ca | tegory: | NC | R: Yes | No DO | A: | Date: | <u> </u> |
| | R | esolution: | | | | | | | Date: _ | |
| NCR: | · · | | WORK ORI | DER NON-CONFO | RMANCE | (NCR |) | | | |
| DATE | STEP | Description of NC Section A | Initial | Corrective Action Action Descript | Section B tion | Sign & | | cation tion C | Approval Chief Eng | Approval QC Inspector |
| | | | Chief Eng | Chief Eng | | Date | | | | |
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| Picklist Prin | t | | | | | | • | | · | | : | | Page 1 |
|--------------------------------|--|-----------------------------|-------------|---------------------|----------------------|--------------------------|--------------------|----------------|---|----------------|----------------|-------------------|--------|
| Wednesday, July 1 | 4, 2010 8:24:45 AM | | | | | | | | | | i | | 150 . |
| Work Order ID: 6 | 60557 | | | | | | + | | | | - | * | 7 |
| Parent Item: | D212-664-201 | | | | | | | | | | | | |
| Parent Item Name: | Crosstube Aft | | 11251 | | | 18 11811 88181 E181 F881 | | St | art Date: 7/1 | 14/2010 | Require | d Date: 7/22/2 | 010 |
| | | | | | | | | S | start Qty: 1.0 | 00 | = | ed Qty: 1.00 | |
| Comments: | IPP Rev:E □ 04.02.1 IPP Rev:F 06-03-2 IPP Rev:G 07-04- IPP Rev:H 08-05- | Remove Con 30 As per Rev | ments c | JLM | JLM DD verified by: | EC | | | | | | | |
| Component Item ID Item Name | P/ Replacement Item ID | Mfg/ Purch | Bin Item | Primary Location | Last Location | Route Seq ID | Unit of Measure | Qty on Hand | Qty per Ki | t Total Qty | Qty Issued | Date St Issued | atus |
| D212-664-201TRN | | Manufactured | No | | | 110 | Each | 2.0000 | 1 | 1 | | | |
| Crosstube Turning Det | ail | | | | | | ! | , | | 13-60) | 570 ~ | 'U 10- | ×7-20 |
| | | | | <u>Locatio</u> | <u>on</u> | Loc | Oty | Loc Code | | | | | |
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| D3595-063-530 | | Manufactured | No | | | 230 | Each | 109.0000 | 2 | 2 | | | |
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| RUBBER CUSHION | | | | | | | | 1 | - | | i i | 1 | |
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| Dart Ae | rospace | e Ltd | | | | | | , | | |
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| W/O: | | | W | ORK ORDER CHANGE | S | • | | , | 4- | |
| DATE | STEP | PRO | CEDURE CHA | ANGE | Ву | Date | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector | |
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| Part No | : | PAR #: | Fault Cate | egory: | NCR: Yes | No DO | A: | _ Date: _ | | |
| | R | esolution: | Disposition | on: | QA: N/C Clo | sed: _ | Date: | | | |
| NCR: | | V | WORK ORD | ER NON-CONFORMA | NCE (NCR |) | 1 | | | |
| | | Description of NC | | Corrective Action Section | Section B | | | Approval | Approval | |
| DATE | STEP | Section A | Initial Chief Eng | Action Description Chief Eng | Sign & Date | | ication tion C | Chief Eng | QC Inspector | |
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· Picklist Print

Wednesday, July 14, 2010 8:24:45 AM

Work Order ID: 60557

Parent Item:

D212-664-201

Parent Item Name: Crosstube Aft

Start Date: 7/14/2010

Required Date: 7/22/2010

, Page 2

Start Qty: 1.00

Réquired Qty: 1.00

MS21920-28

Clamp(per MIL-DTL-8783C)

Manufactured

Purchased

Purchased

No

No

No

No

230

250

250

Each

5

116

24

92

Each

121.0000

D3428-1

Placard

MS21042L6

Nut

Purchased

Location ST056

Location

FG

LG

60133

105884

112863

114749

Loc Qty

Loc Qty

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| DATE | STEP. | | PROCEDURE CHANGE | By Date | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector |
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| Part No | | PA | R #: Fault Category: | NCR: Yes No De | PA: | Date: _ | |
| | R | esolution: | Disposition: | QA: N/C Closed: _ | | Date: _ | |

| | | Description of NC | | Verification | Ammunici | Approval | | |
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| -DATE | STEP | Section A | Initial Chief Eng | Action Description Chief Eng | Sign & Date | Section C | Approval Chief Eng | QC Inspecto |
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·Picklist Print

Wednesday, July 14, 2010 8:24:45 AM

Work Order ID: 60557

Parent Item:

D212-664-201

Parent Item Name: Crosstube Aft



Start Date: 7/14/2010

Required Date: 7/22/2010

Page 3

Start Qty: 1.00

Required Qty: 1.00

AN6-40A

Bolt

Purchased

No

250

Each

75.0000

Loc Code

AN6-41A

Bolt

Purchased No

Location Loc Oty ST343 75 25 50

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Loc Code

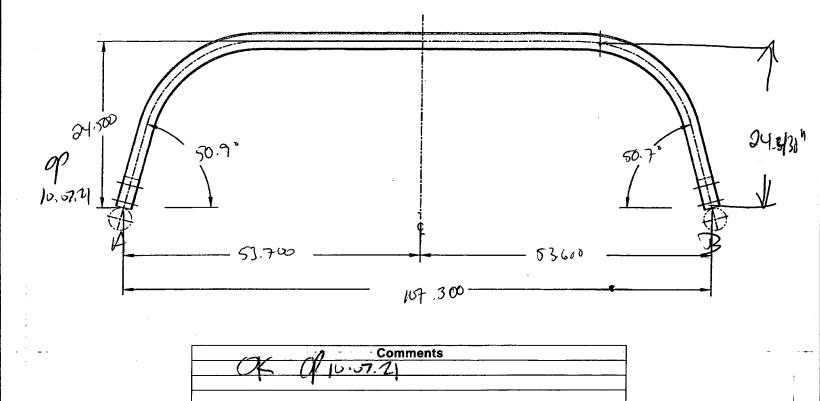
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| DATE | STEP | Description of NC | | Corrective Action Section | | C: 0 | | ication | Approval | Approval |
| | | Section A | Initial Chief Eng | Action Description Chief Eng | | Sign & Date | Se | ction C | Chief Eng | QC Inspector |
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| DART AEROSPACE LTD | Work Order: | 1055 |
|---|--------------|--------------|
| Description: Crosstube High Aft (205/212) | Part Number: | D212-664-201 |
| Inspection Dwg: D212-664-241 Rev: D | | Page 1 of 1 |

| Required Dimension | Min | Max |
|--------------------|--------|---------|
| Height | 24.17 | 24.43 € |
| 1/2 Span | 53.59 | 53.85 |
| Angle | 49 | 52 |
| Total Span | 107.18 | 107.70 |



| Rev | Date | Change | Revised by | Approved |
|-------|----------|-----------------------------------|------------|----------|
| Α | 07.02.06 | New Issue | KJ/JM | |
| - ·B· | 07.05.08 | Dimensions updated per Dwg rev: C | KJ/JLM , N | |
| -c | 10:04.01 | Dwg Rev updated | KJ GC | 1 |

QC15 Inspection Date

| W/O: | | | ١٨ | ORK ORDER CHAN | IGES | | | | | | |
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| DATE | STEP | | PRO | PROCEDURE CHANGE | | | | Date Qty | Approval Chief Eng / | Approval | |
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| Part No | Part No: | | PAR #: Fault Category: | | | NCR: Yes No DQA: Date: | | | | | |
| Resolution: | | | Disposition: QA: N/C Closed: D | | | | | | Date: | | |
| NCR: | | ii. | | WORK OR | DER NON-CONFORM | MANCE (N | ICR) | | | | |
| DATE | OTED | Des | cription of NC | | ection B | | Verification | n Approval | Approval | | |
| DATE | STEP | | Section A | Initial Chief Eng | Action Description Chief Eng | | gn & Date | Section C | Chief Eng | QC Inspector | |
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| Item | Qty -241 | Qty -241B | Part Number | Description | | | | | |
|------|-------------|--------------|----------------|---|--|--|--|--|--|
| 1 | X | | D212-664-241 | CROSSTUBE ASSEMBLY (205/212 HIGH AFT) | | | | | |
| 2 | | Х | D212-664-241B | CROSSTUBE ASSEMBLY (214 HIGH AFT) | | | | | |
| 3 | 1 | 1 | D6006-129 | CROSSTUBE | | | | | |
| 4 | 2 | 2 | D2940-1 | SUPPORT | | | | | |
| 5 | 4 | 4 | D3595-063-530 | RUBBER CUSHION | | | | | |
| 6 | 4 | 4 | MS21920-28 | CLAMP (OR MS21920-30) | | | | | |
| 7 | A/R | A/R | MAGNOBOND 6398 | ROCKWELL SPECIFICATION RBO-120-023 ADHESIVE (TEXTRON/BELL SPEC. 299-947-100, TYPE II, CLASS 2 ADHESIVE) | | | | | |

GENERAL NOTES:

1) MATERIAL: MANUFACTURED FROM D6006-129

FINISHED LENGTH = 124.362±0.020

2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1 PRIME INSIDE AND OUTSIDE PER DART QSI 005 4.2 PAINT OUTSIDE PER DART QSI 005 4.2

- 3) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED.
- UNITS: INCHES UNLESS OTHERWISE NOTED.
- BREAK SHARP EDGES: 0.005 TO 0.010 MAX.
- IDENTIFICATION: SCRIBE DART PART NUMBER "D212-664-XXX" AND BATCH NUMBER ON INSIDE OF CUFF USING VIBRATING STYLUS.
- WEIGHT: D212-664-241 = 44.2 lbs (PER IIN-D212-664)
 - D212-664-241B = 44.2 lbs (PER IIN-D212-664)
- PART IS SYMMETRIC ABOUT CENTERLINE.
- RUN CUTTER OFF PART. BLEND OUT EDGE LONGITUDINALY, TRANSITION SHOULD BE SMOOTH.
- 10) BEND PROGRESSIVELY WITH A MINIMUM OF 5 PASSES. MAXIMUM TUBE FLATTENING DUE TO BENDING IS 6% BASED ON O.D.
- 11) LIQUID PENETRANT INSPECT OUTSIDE SURFACE OF CROSSTUBE PER QSI 038.
- 12) INSTALL D2940-1 SUPPORT USING 0.03" TO 0.06" THICK LAYER OF MAGNOBOND 6398 TO THE SURFACE OF D2940-1 THAT WILL BE IN CONTACT WITH THE CROSSTUBE PER QSI 015. LET CURE FOR 12 HOURS AFTER INSTALLATION AND PRIOR TO PACKAGING
- 13) INSTALL MS21920-28 CLAMPS (OR -30) WITH D3595-063-530 RUBBER CUSHIONS TO SECURE THE D2940-1 SUPPORT ON TOP SIDE OF THE CROSSTUBE. ENSURE CLAMPS ARE OPPOSITE OF CROSSTUBE SUPPORT.
- 14) EXTREME CARE MUST BE TAKEN TO PROTECT THE OUTSIDE SURFACE OF THE TUBE. THE OUTSIDE SURFACE MUST BE SMOOTH AND FREE FROM SURFACE DEFECTS SUCH AS SCRATCHES, NICKS, OR DENTS. DEFECTS UP TO 0.005" MAY BE BLENDED OUT LONGITUDINALLY. CIRCUMFERENTIAL GRIND MARKS ARE UNACCEPTABLE.
- 15) TORQUE CLAMPS 80 TO 100 IN-LB. ENSURE AT LEAST 1.5 THREADS SHOWING IN SAFETY AND THAT NUT HAS NOT BOTTOMED-OUT AFTER TORQUING.

SHOP COPY **RETURN TO ENGINEERING UNCONTROLLEDICOPY** SUBJECT TO AMENUMENT WITHOUT NOTICE WORK ORDER

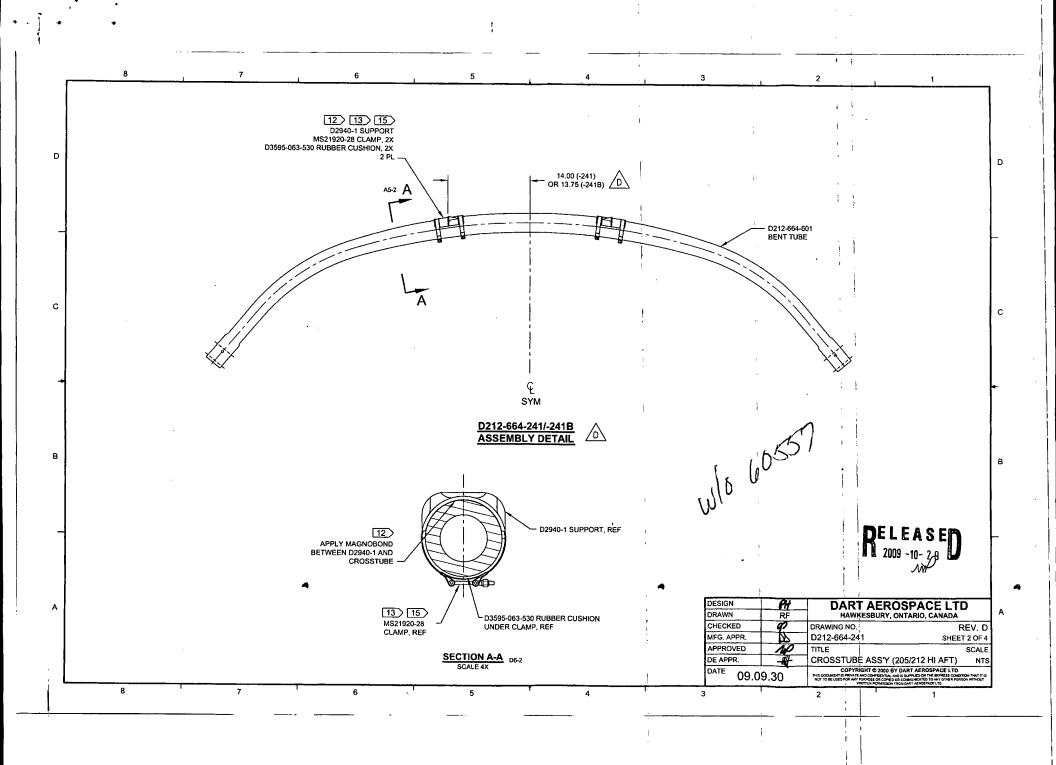
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| D | REORG TO CUR REMOV C6-3 & A A5-3); N | REFORMAT/REVISE GENERAL NOTES/PART LIST: REGORGANIZED VIEWS AND REFORMATTED DRAWING TO CURRENT STANDARDS; ADD -241B (ZN D4-2, B4-2); REMOVED REF & ADD TOLERANCES (ZN D4-3 & C4-3, C6-3 & A8-3); RELOCATED FLAG #6 PERPAR 08-046 (ZN A5-3); REVORTED FLAG #6 PERPAR 08-046 (ZN A5-3); MOVED TURNING DETAIL & UPDATED TOLERANCE TO SHEET 4 REMOVE -1009 ABRASION STRIP: ADD MAGNOBOND | | | | | | | |
| С | | | ASION STRIP; ADD /ERSE CLAMPS | MAGNOBOND | РН | 07.03.08 | | | |
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| CHECK | D | 9 | DRAWING NO. | | | REV. D | | | |
| MFG, AF | PPR. | 187 | D212-664-241 | SHEET 1 OF | | | | | |
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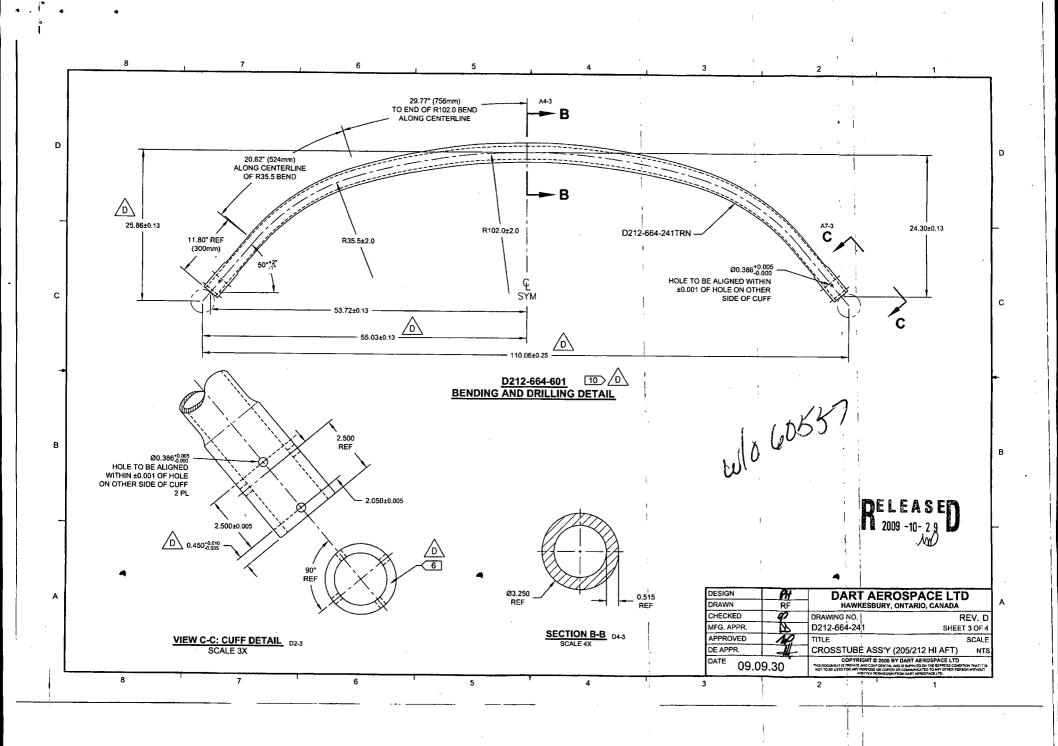
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| NCR: | | , | WORK OR | DER NON-CONFOR | MANCE | (NCR |) | | | |
| DATE | STEP | Description of NC Section A | Initial Chief Eng | Corrective Action S Action Description Chief Eng | Section B | Sign & Date | | ication tion C | Approval Chief Eng | Approval QC Inspector |
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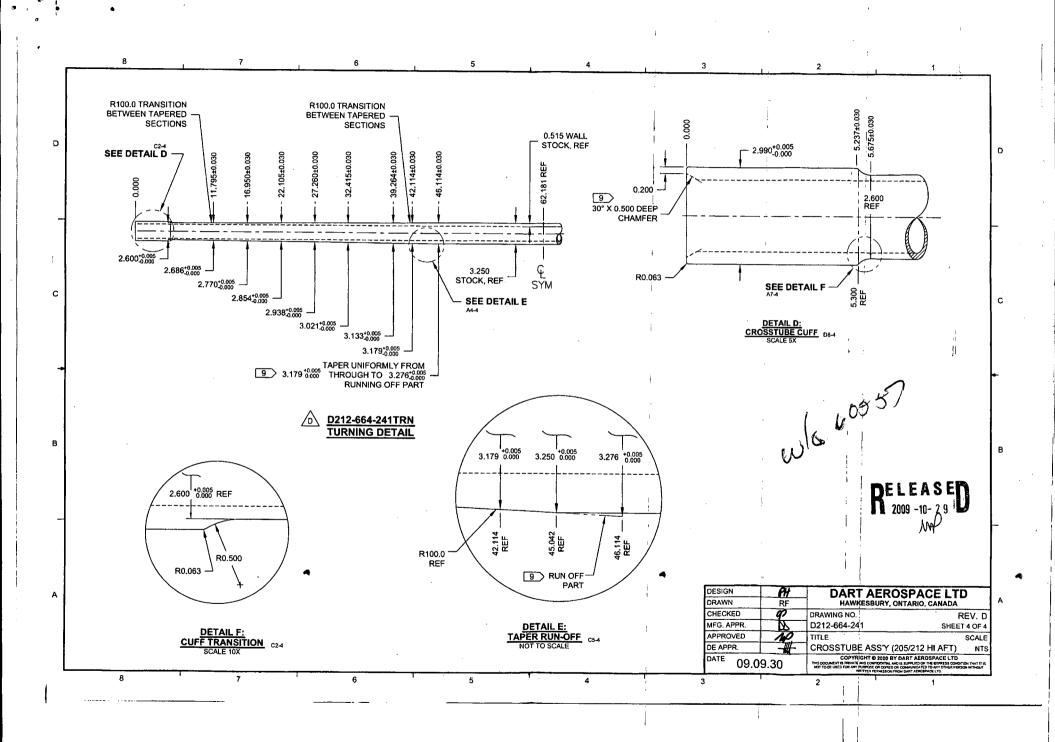
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| | J.L. | Section A | Initial Chief Eng | Action Description Chief Eng | | Sign & Date | Sed | ion C | Chief Eng | QC Inspector |
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| DATE STEP Description of NC | | Corrective Action Section B | | | Sign & Verif | | | Approval | Approval | |
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LIQUID PENETRANT TEST REPORT

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| JOB DESCRIPTION | PROCEDURE NO. LT-002 REV./DATE | TECHNIQUE NO. LT-TECH'Z. | |
| PART NO. | | MATERIAL ALCIDINE ALLINGULATHIC | |
| SCOPE WE | | IQUID PENETRANT | INSPECTION_ |
| | CARRED OUT 1009 | S EXTENNAL. | |
| TEST DETAILS | | | |
| METHOD | S FLUORESCENT U VISIBLE | WATER WASH SOLVENT REMO | |
| FAMILY BRAND (LA) PENETRANT 2-0 | G7 MINIMUM DWELL TIME 4510 MIN. | BLACK LIGHT S/N / 6 4 5 4 0 OUTPUT > 1000 LIGHTING EQUIP. FLASHLIGHT TROUBLELIGHT | |
| | MINIMUM DRY TIME >10 MIN. | OTHER 69360 | |
| DEVELOPER SKD | MINIMUM DWELL TIME 10 MIN. | LIGHT METER S/N 10 988 66 | CAL DUE DATE OC 7 19 |
| | NON AQUEOUS AQUEOUS DRY | L | 2010 |
| TEST SURFACE SURFACE CONDITION | As GROUND | ✓ MACHINED ☐ SHOT BLASTED | ☐ CLEAN BARE METAL |
| SURFACE CONDITION U SURFACE TEMPERATURE U | | | |
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| 1 - Closs Tale E, W.O. 60357 E, W.O. 60556 BE, W.O. 60449 BE, W.O. 60450 DE, W.O. 60450 DE, W.O. 60450 DE, W.O. 60357 Derform services extends only to those services provided for in writing. Under pressions of opinion reflect the opinions or observations of Acuren Group Inc. Is not assuming any responsibilities of the owner/operator and the Acuren Group Inc. In no event shall Acuren Group Inc.'s liability in respect of the owner/operator of the Acuren Group Inc.'s liability in respect of the owner/operator of the owner/operator of the Acuren Group Inc.'s liability in respect of the owner/operator operator of the owner/operator operator of the owner/operator operator | based on information and assumptions supplied by the owner/operator an owner/operator retains complete responsibility for the engineering, man, the services referred to herein exceed the amount paid for such services. | at are not uncluded har can they be construct as afacture, repair and use decisions as a result of the |
| Standard of Care In performing the services provided, Ac- implied, is made or intended-by-Acuren | uren Group Inc. uses the degree, cure and skill ordinarily exercised under simi Group Inc | ilar circumstances by others performing such services in the same or sim. | ilar locality. No other warranty, expressed or |
| SIGNATURES | | 11110 | 7 101110 |
| CLIENT REPRESENTATIVE | Jason Murdoch | DTR# | E J7417 |
| TECHNICIAN (SIGNATURE): | C. J. | REPORT REVIEWED BY: | |
| NAME_ (PRINT): | MKE JEHNSTON | | NAME INITIALS |
| | CGSB LEVEL SNT LEVEL CGSB LEV CGSB REG. NO CGSB RE | VELSNT LEVEL | |

IIN-D212-664 Page 18 of 20

5.0 PARTS LIST

5.1 HIGH GEAR CROSSTUBES

| Item | -101 | -201 | -203 | Part Number | Description |
|------|------|----------|-------------|------------------|--|
| | х | | | D212-664-101 | CROSSTUBE INSTALLATION, 204/205/210/212/214/412, UH-1H, UH-1A/B/E/F/L/P, TH-1F/L, HH-1K HIGH FWD |
| | | х | | D212-664-201 | CROSSTUBE INSTALLATION, 204/205/210/212/214, UH-1H, UH-1A/B/E/F/L/P, TH-1F/L, HH-1K HIGH AFT |
| | | | х | D412-664-203 | CROSSTUBE INSTALLATION, 412 HIGH AFT |
| 1 | 1 | | | D212-664-141 | CROSSTUBE ASSEMBLY, 204/205/210/212/214/412, UH-1H, UH-1A/B/E/F/L/P, TH-1F/L, HH-1K HIGH FWD |
| 2 | | 1 | | D212-664-241 | CROSSTUBE ASSEMBLY, 204/205/210/212/214, UH-1H, UH-1A/B/E/F/L/P, TH-1F/L, HH-1K HIGH AFT |
| 3 | | - | 1 | D412-664-243 | CROSSTUBE ASSEMBLY, 412 HIGH AFT |
| | | | | T D0000 4 | CURRORT |
| 10 | 2 | | | * D2893-1 | SUPPORT RUBBER CUSHION |
| 11 | 4 | | | * D3595-063-450 | CLAMP (OR MS21042-26) |
| 12 | 4 | | | * MS21920-25 | BOLT |
| 13 | 4 | | ļ | AN6-35A | BOLT |
| 14 | 4 | | | AN6-36A | |
| 15 | 6 | | | MS21042L6 | NUT (OR MS21042-6) |
| 16 | 18 | - | | AN960JD616 | WASHER |
| 20 | | 2 | | * D2940-1 | SUPPORT |
| 21 | | 4 | <u> </u> | * D3595-063-530 | RUBBER CUSHION |
| 22 | 1 | 4 | | * MS21920-28 | CLAMP (OR MS21042-30) |
| 23 | | . 4 | | AN6-40A | BOLT |
| 24 | | , 2 | | AN6-41A | BOLT |
| 25 | | 6 | | MS21042L6 | NUT (OR MS21042-6) |
| 26 | | 18 | | -AN960JD616 L | WASHER |
| | | | | | |
| 30 | | | 1 | * D2896-1 | SUPPORT |
| 31 | | | 2 | * D2856-600-1009 | ABRASION STRIP |
| 32 | | | 2 | * D3595-063-570 | RUBBER CUSHION |
| 33 | | | 4 | * MS21920-28 | CLAMP |
| 34 | | | 2 | * MS21920-30 | CLAMP (OR MS21042-32) |
| 35 | 1 | | 4 | AN6-40A | BOLT |
| 36 | | | . 2 | AN6-41A | BOLT |
| 37 | | | 6_ | MS21042L6 | NUT (OR MS21042-6) |
| 38 | | | 18 | AN960JD616 | WASHER |
| 39 | | | 2 | * D3189-1 | CHAFING SHIELD |
| | | | | | |
| 50 | 1 1 | 1 1 | 1 | D3428-1 | PLACARD |

*REFERENCE ONLY. PARTS ARE INCLUDED IN D212-664-141/-241 OR D412-664-243 ASSEMBLIES ABOVE NOTE: KITS INCLUDE EXTRA HARDWARE FOR COMPATIBILITY WITH BOTH DART AND BELL/AA SKIDTUBES.

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